

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P957562

Luminaire Tested: **GALN-SB9D-850-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957562
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB9D-850-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 88121 lumens
Efficiency: N/A
Efficacy: 133.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B5 - U0 - G5

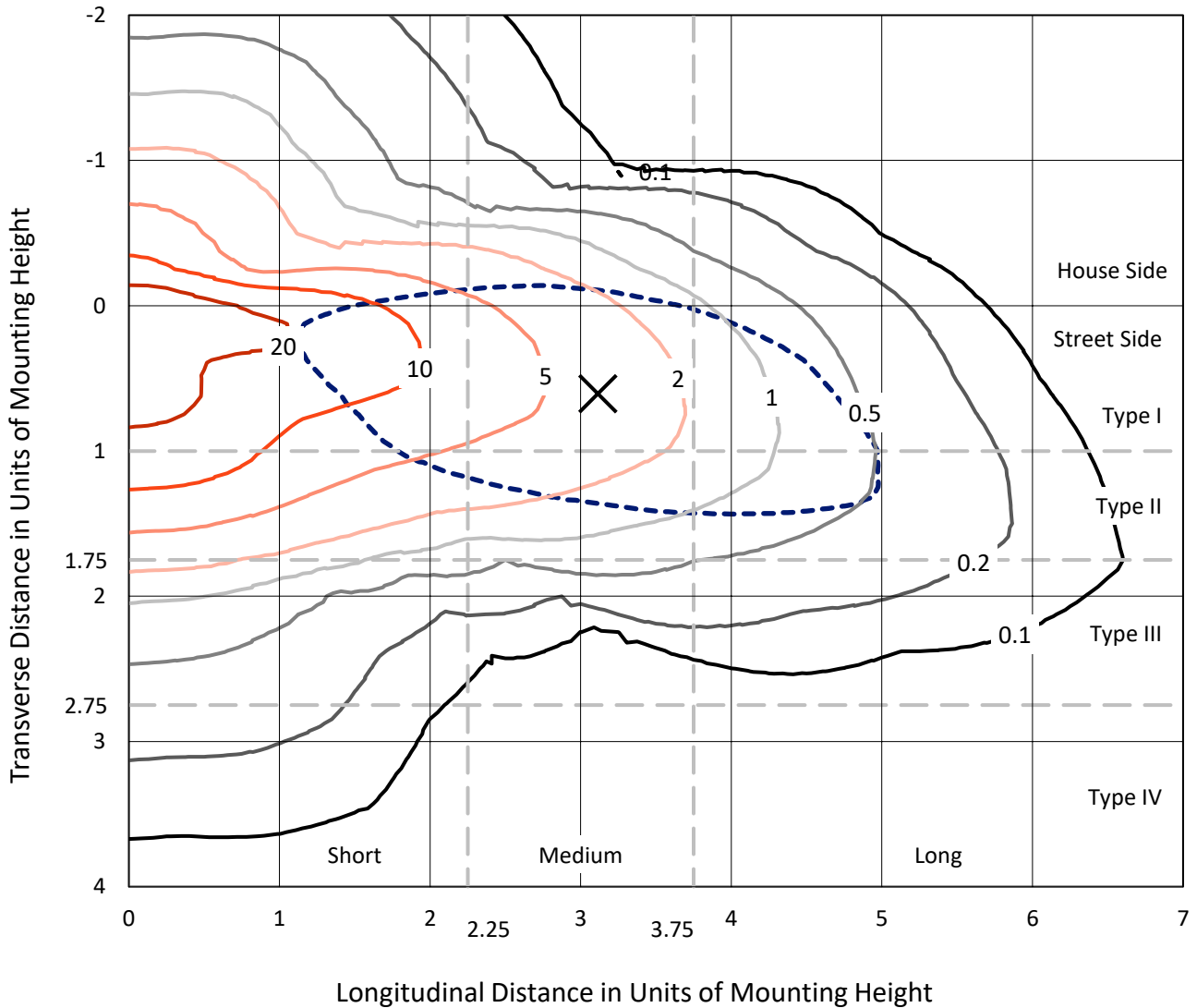
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

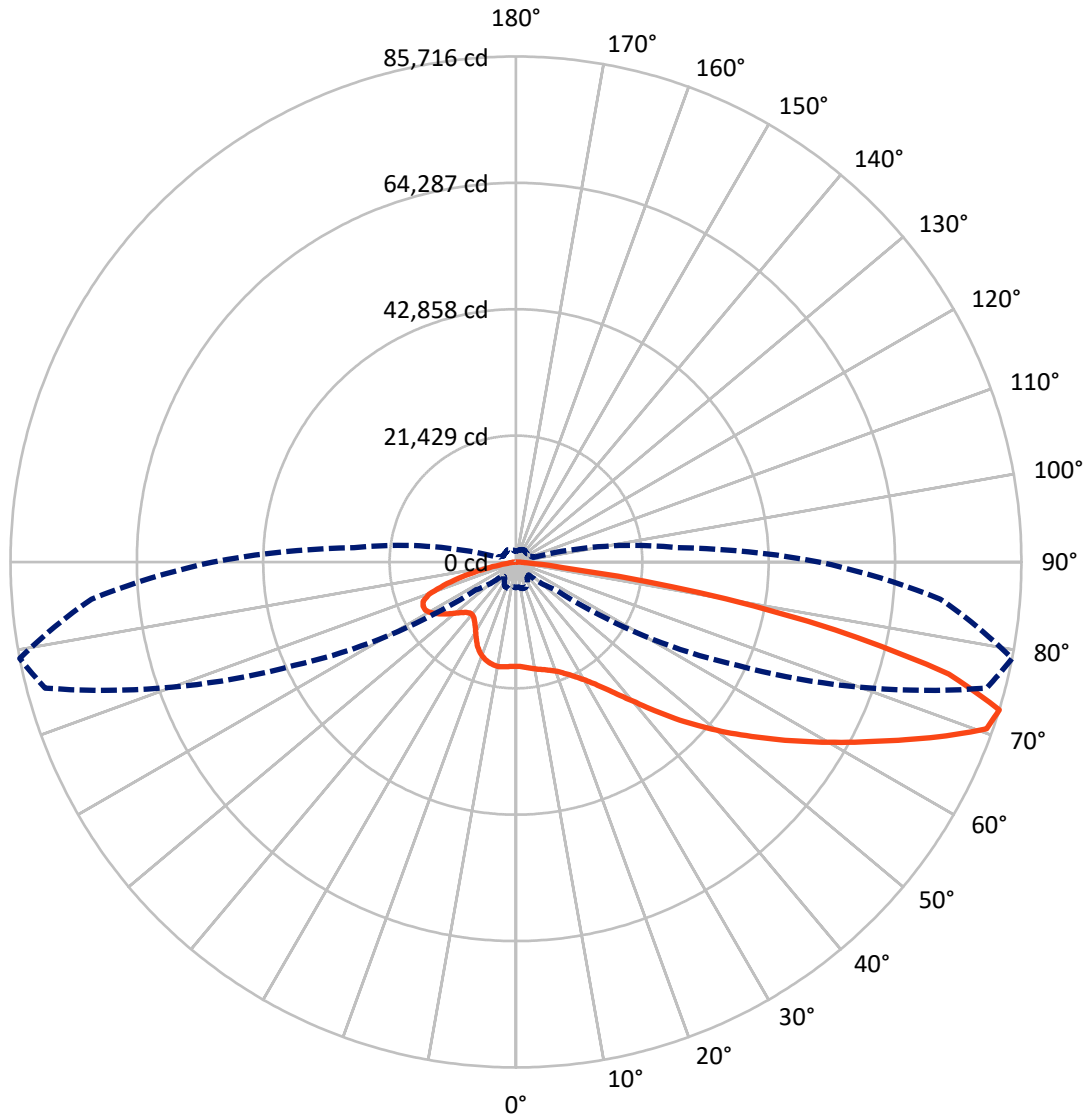
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19391.5	0.0	19391.5
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	68729.5	0.0	68729.5
	% Fixture	78.0	0.0	78.0
Total	Lumens	88121.0	0.0	88121.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1605.7	1.8
10°-20°	4198.1	4.8
20°-30°	6774.0	7.7
30°-40°	10166.8	11.5
40°-50°	14422.2	16.4
50°-60°	18213.3	20.7
60°-70°	18498.1	21.0
70°-80°	12607.3	14.3
80°-90°	1635.7	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	88121.0	100.0
0°-180°	88121.0	100.0

Coefficient of Utilization



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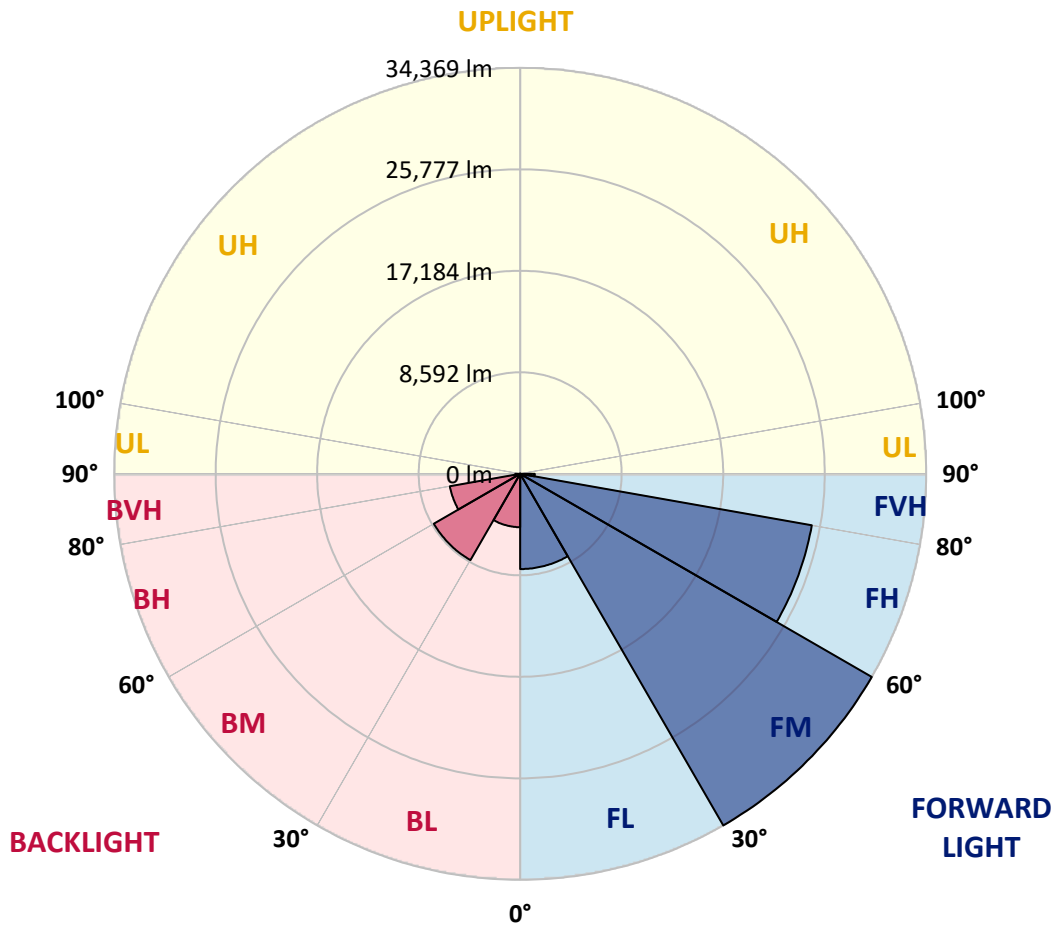
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8060.9	9.1			
FM (30°-60°)	34369.0	39.0			
FH (60°-80°)	25067.4	28.4			G5
FVH (80°-90°)	1232.2	1.4			G5
BL (0°-30°)	4516.8	5.1	B4/5000		
BM (30°-60°)	8433.2	9.6	B4/8500		
BH (60°-80°)	6037.9	6.9	B5		G5
BVH (80°-90°)	403.5	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	17689.5	17689.5	17689.5	17689.5	17689.5	17689.5	17689.5	17689.5	17689.5	17689.5
2.5°	17698.8	17614.9	17666.1	17647.5	17670.8	17698.8	17708.1	17722.1	17768.7	17764.0
5°	17661.5	17577.6	17647.5	17624.2	17684.8	17750.0	17806.0	17857.3	17931.8	17964.5
7.5°	17582.2	17526.3	17596.2	17666.1	17778.0	17875.9	17955.1	18071.7	18178.9	18197.5
10°	17120.8	17078.8	17242.0	17423.8	17731.4	17997.1	18169.6	18304.7	18421.3	18439.9
12.5°	16640.7	16589.4	16771.2	17018.2	17517.0	17997.1	18360.7	18537.8	18640.3	18700.9
15°	16561.4	16519.5	16622.0	16836.4	17251.3	17871.2	18491.2	18817.5	18906.0	18976.0
17.5°	16943.7	16864.4	16906.4	16980.9	17223.3	17754.7	18593.7	19134.4	19269.6	19344.2
20°	17829.3	17717.4	17652.2	17503.0	17461.1	17773.4	18584.4	19516.7	19693.8	19787.0
22.5°	19008.6	18934.0	18794.2	18416.6	18006.4	18001.8	18761.5	20006.1	20337.0	20425.6
25°	20434.9	20323.1	20145.9	19633.2	18845.4	18453.9	19059.9	20630.7	21185.4	21208.7
27.5°	22075.7	21907.9	21665.5	20989.6	19926.9	19162.4	19516.7	21348.5	22159.6	22150.3
30°	23805.0	23637.2	23380.8	22560.5	21222.7	20118.0	20150.6	22122.3	23315.6	23264.3
32.5°	25068.2	24942.4	24891.1	24257.2	22714.3	21246.0	20877.7	22980.0	24741.9	24695.3
35°	26037.8	25874.6	25935.2	25613.6	24341.1	22509.2	21768.0	24000.8	26475.9	26471.3
37.5°	26998.0	26853.5	26904.7	26690.3	25846.6	24112.7	22854.1	25250.0	28624.8	28727.3
40°	27874.3	27720.5	27925.6	27725.1	27016.6	25818.7	24089.4	26662.4	31113.9	31309.6
42.5°	28401.0	28279.8	28620.1	28624.8	28032.8	27259.0	25445.8	28219.2	33994.5	34432.7
45°	28582.8	28540.8	29053.6	29160.8	28932.4	28093.4	26667.0	29915.9	37098.9	37882.0
47.5°	28387.0	28307.8	29016.3	29412.5	29594.3	28484.9	27678.5	31752.5	40268.6	41415.2
50°	27398.8	27245.0	28298.5	29132.8	29780.7	28741.3	28699.3	33873.3	43871.7	45125.6
52.5°	25622.9	25506.4	26704.3	28154.0	29370.6	28867.1	29846.0	36190.0	47293.1	48915.2
55°	23352.9	23199.1	24518.2	26410.7	28349.7	28825.2	30992.7	38781.6	51329.7	52975.1
57.5°	19754.4	19446.7	21115.5	23352.9	26685.7	28773.9	32185.9	41359.3	55431.6	57403.3
60°	14505.8	14049.0	16095.3	18747.6	23432.1	28275.2	33663.6	44249.3	60353.9	62129.8
62.5°	8446.2	8180.5	9518.3	11993.4	17661.5	25338.6	34493.3	47610.0	65192.3	67056.8
65°	6558.4	6483.8	6600.3	6791.4	9830.6	18971.3	31934.2	50886.9	71345.1	72650.3
67.5°	5999.0	5943.1	5994.4	5635.5	4987.5	10567.1	25264.0	51716.6	77936.1	78728.6
70°	5332.5	5267.2	5435.0	5127.4	3924.8	4805.8	16323.7	48705.4	83180.0	84667.0
72.5°	4344.3	4269.7	4661.3	4521.4	3304.8	3085.7	8199.1	41550.4	82630.0	85715.8
75°	3337.5	3295.5	3761.6	3878.2	2694.2	2428.5	3934.1	30885.5	72715.5	75824.6
77.5°	2591.7	2559.0	2796.8	3220.9	2172.1	1883.1	2419.2	19591.2	54797.7	55343.0
80°	1943.7	1850.5	2069.6	2493.8	1692.0	1375.1	1640.8	11424.7	34637.8	31398.2
82.5°	1216.6	1170.0	1351.8	1664.1	1193.3	946.2	1067.4	6311.3	13881.2	8175.8
85°	694.5	675.9	736.5	950.9	647.9	545.4	610.6	2787.4	2535.7	1743.3
87.5°	279.7	270.4	335.6	424.2	237.7	200.4	214.4	671.2	559.4	517.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
17689.5	0°	17689.5	17689.5	17689.5	17689.5	17689.5	17689.5	17689.5	17689.5	17689.5	17689.5
17759.4	2.5°	17740.7	17740.7	17675.5	17572.9	17456.4	17381.8	17260.6	17228.0	17102.1	17064.8
17917.9	5°	17955.1	17917.9	17717.4	17428.4	17032.2	16668.6	16267.8	16016.1	15661.8	15536.0
18230.2	7.5°	18225.5	18122.9	17778.0	17144.1	16314.4	15498.7	14650.3	14007.1	13391.8	13172.7
18486.5	10°	18472.5	18328.0	17740.7	16631.3	15195.7	13783.3	12431.6	11485.3	10767.5	10473.8
18770.9	12.5°	18719.6	18453.9	17493.7	15778.3	13606.2	11690.4	10250.1	9513.6	9070.8	8716.5
19003.9	15°	18952.7	18579.8	17111.5	14636.3	11862.9	9919.1	8856.4	8269.1	7914.8	7681.7
19344.2	17.5°	19223.0	18687.0	16538.1	13186.7	10203.5	8693.2	7826.2	7472.0	7402.1	7374.1
19810.3	20°	19600.6	18784.8	15783.0	11564.6	8982.2	7714.4	7266.9	7234.3	7229.6	7215.6
20369.7	22.5°	20006.1	18901.4	14785.5	10091.6	7942.8	7103.7	7024.5	6959.2	6917.3	6912.6
21045.6	25°	20486.2	18938.7	13536.3	8884.3	7057.1	6814.8	6721.5	6623.6	6595.7	6595.7
21814.7	27.5°	20952.3	18812.8	12082.0	7835.6	6558.4	6549.1	6427.9	6395.2	6390.6	6404.6
22691.0	30°	21418.5	18575.1	10637.0	6866.0	6269.4	6269.4	6227.4	6250.7	6269.4	6316.0
23893.6	32.5°	22047.7	18323.4	9429.7	6148.2	6017.7	5971.1	6013.0	6059.6	6078.3	6138.9
25473.7	35°	22970.7	18146.3	8469.5	5756.6	5756.6	5696.1	5719.4	5710.0	5668.1	5640.1
27384.9	37.5°	24191.9	18136.9	7677.1	5574.9	5537.6	5528.2	5532.9	5472.3	5309.2	5113.4
29696.8	40°	25660.2	18388.6	7066.5	5449.0	5421.0	5477.0	5449.0	5285.9	4838.4	4498.1
32540.2	42.5°	27631.9	19106.5	6674.9	5295.2	5379.1	5449.0	5337.1	4773.1	4470.1	4241.7
35779.8	45°	29953.2	20271.8	6474.5	5132.0	5299.8	5383.7	4843.0	4596.0	4353.6	4078.6
39313.0	47.5°	32582.2	21740.1	6427.9	4978.2	5122.7	5174.0	4633.3	4521.4	4246.4	3948.1
42864.9	50°	35444.2	23478.7	6553.7	4796.4	4866.3	4689.2	4563.4	4460.8	4176.5	3882.8
46505.3	52.5°	38404.1	25394.5	6805.4	4549.4	4610.0	4414.2	4535.4	4446.8	4134.5	3738.3
50266.9	55°	41312.7	27324.3	7047.8	4260.4	4348.9	4167.2	4456.2	4390.9	3943.4	3495.9
54280.3	57.5°	44267.9	29244.7	7285.5	4004.0	4097.2	3929.4	4330.3	4241.7	3729.0	3272.2
58661.9	60°	47339.7	31109.2	7397.4	3757.0	3822.2	3710.4	4139.2	3985.4	3486.6	3043.8
62968.9	62.5°	50215.7	32661.4	7215.6	3509.9	3551.9	3505.3	3887.5	3682.4	3244.2	2787.4
67457.6	65°	53101.0	33584.3	6656.3	3267.5	3276.9	3253.6	3533.2	3356.1	2959.9	2563.7
71387.1	67.5°	55716.0	34101.7	5766.0	3006.5	2983.2	2973.9	3202.3	3001.8	2684.9	2339.9
74374.9	70°	56270.6	32787.2	4404.9	2698.9	2698.9	2675.6	2838.7	2633.6	2381.9	2102.2
72235.4	72.5°	51395.0	27580.6	3127.7	2349.3	2386.6	2339.9	2475.1	2302.7	2074.3	1887.8
62255.7	75°	41443.2	20225.2	2274.7	1990.4	2055.6	1976.4	2102.2	1981.0	1785.3	1780.6
42902.2	77.5°	28475.6	12506.1	1650.1	1640.8	1687.4	1584.8	1729.3	1664.1	1486.9	1407.7
18673.0	80°	12151.9	4987.5	1202.6	1267.9	1267.9	1174.6	1342.4	1361.1	1207.3	1170.0
3603.1	82.5°	2419.2	1417.0	843.7	871.7	820.4	792.4	950.9	1053.4	1454.3	1617.5
1086.1	85°	727.2	522.1	508.1	475.4	419.5	424.2	559.4	1058.1	1305.2	745.8
358.9	87.5°	200.4	130.5	135.2	107.2	88.6	116.5	191.1	801.7	438.2	186.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
17689.5
17125.4
15629.2
13200.7
10539.1
8833.1
7723.7
7392.7
7262.2
6963.9
6623.6
6441.9
6348.6
6190.1
5705.4
5118.1
4488.8
4232.4
4060.0
3924.8
3850.2
3710.4
3472.6
3262.9
3029.8
2782.8
2535.7
2312.0
2092.9
1831.9
1603.5
1319.1
1170.0
1622.1
643.3
158.5
0.0

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